

## DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0148 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)	
2003	3JDXL06.8055	6.8	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION		
Direct Diesel Injection, Turbocharger, Smoke Puff Limiter			Tractor, Industrial Equipment		

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER	EMISSION STANDARD		EXHAUST (g/kw-hr)			OPACITY (%)				
CLASS	CATEGORY		HC	NOx	NMHC+NOx	co	РМ	ACCEL	LUG	PEAK
75 <u>≤</u> kW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
		FEL	-	-	9.4	-	0.34	-	-	-
		CERT	-	_	7.7	0.9	0.28	10	6	24

**BE IT FURTHER RESOLVED:** That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

**BE IT FURTHER RESOLVED**: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this \_\_\_\_\_\_ day of January 2003.

MAllen Lyons, Chief

Mobile Source Operations Division

11-R-004-0148

Attachment 10f 2

Manufacturer;

Engine category: Nonroad CI

EPA Engine Family: 3JDXL06,8055

Mfr Family Name: 350TG

Process Code: New Submission

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9.Emission Control Device Per SAE J193	EM TC PAT 50			EM TO	
8.Fuel Rate: 9.Emission Control (bs/hr)@peak torque Device Per SAE-11930	46.30@1400	31 53@1400	31 08@1300	48.06@1400	
7.Fuel Rate: mm/stroke@peak torque	101.0@1400	66.4@1400	73.0@1300	104@1400	the state of the s
6.Torque @ RPM (SEA Gross)	499.26@1400	345.87@1400	365.04@1300	506.64@1400	control date of control to the contr
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	57.32@2200	37.48@2100	44.09@2300	70.55@2400	
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	80.00@2200	55.60@2100	58.00@2300	90.00@2400	of Artista Control of the Control of
3.BHP@RPM (SAE Gross)	160.92@2200	109.29@2100	116.67@2300 58.00@2300	194,45@2400	
1.Engine Code 2.Engine Model	6068T	6068T	. 6068T	E008T	
1.Engine Code	606811058	6068TP054	6068TP055	· 6068TPRNT2	

ENGINE ONLY. NOT BEING CENTIFIED.

Engine Model Sum ary Form

Deere Power Systems Group of Deere and Attachment 2012 Manufacturer:

Engine category: Nonroad Cl

EPAEngine Family: 3JDXL,06,8055

Mir Family Name: 650TG

Running Change Process Code:

3.BHP@RPM (SAE Gross)

1.Engine Code 2.Engine Model

4.Fuol Rate: 5.Fuol Rate: mrd/stroko @ peak HP (lbs/hr) @ peak HP (for diesels only) (for diesels only)

6.Torque @ RPM (SEA Gross)

7.Fuel Rate: mm/stroke@peak lorque

conu-r.coy-olys Ryc

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930

6068F 49.16@1400 62200 6274@2200 518.44@1400 104@1400 49.16@1400 EMIC **004**56